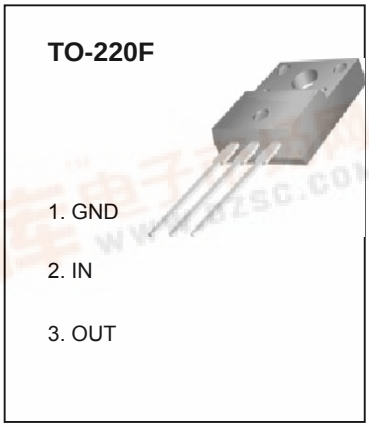
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-220F Plastic-Encapsulate Voltage Regulator

CJ7915F Three-terminal negative voltage regulator



FEATURES

Maximum Output Current

I_{OM}: 1.5 A

Output voltage

V_o: -15 V

ABSOLUTE MAXIMUM RATINGSO (perating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	-35	V
Operating Junction Temperature Range	T_{OPR}	0-+125	℃
Storage Temperature Range	T_{STG}	-55-+150	℃

ELECTRICAL CHARACTERISTICS (Vi=-23V, Io= 500mA, 0℃<T_J<125℃,Ci=2μF, Co=1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	Vo	T_J=25℃	-14.4	-15	-15.6	V
		-17.5V≤V_i≤-30V, Io=5mA-1A P≤15W	-14.25	-15	-15.75	V
Load Regulation	ΔVo	T_J =25℃, Io=5mA-1.5A		15	200	mV
		T_J =25℃, Io=250mA-750mA		5	75	mV
Line regulation	ΔVo	-17.5V≤V_i≤-30V, T_J =25℃		5	100	mV
		-20V≤V_i≤-26V, T_J =25℃		3	50	mV
Quiescent Current	Iq	T_J =25℃		2	3	mA
Quiescent Current Change	ΔIq	-17.5V≤V_i≤-30V			0.5	mA
	ΔIq	5mA≤I_O≤1A			0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz		375		μV
Ripple Rejection	RR	-18.5V≤V_i≤-28.5V, f=120Hz, T_J =25℃	54	60		dB
Dropout Voltage	Vd	T_J =25℃, Io=1A		1.1		V
Peak Current	Ipk	T_J =25℃		2.1		A

TYPICAL APPLICATION